



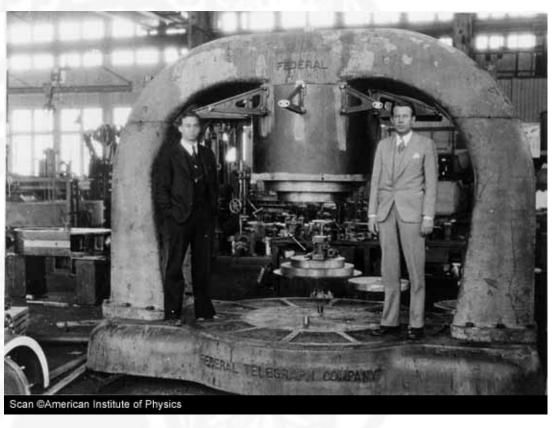


The First Accelerators

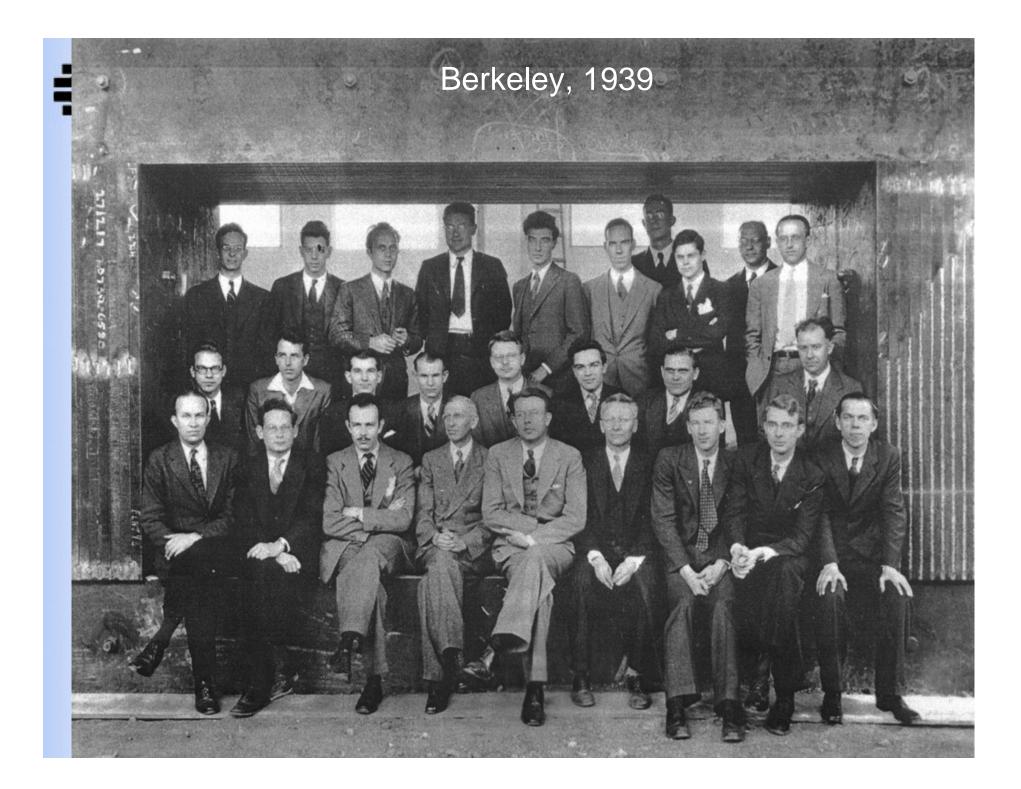


Scanned at the American Institute of Physics

Lawrence and Livingston began developing this 4.5-inch cyclotron in 1929-30.



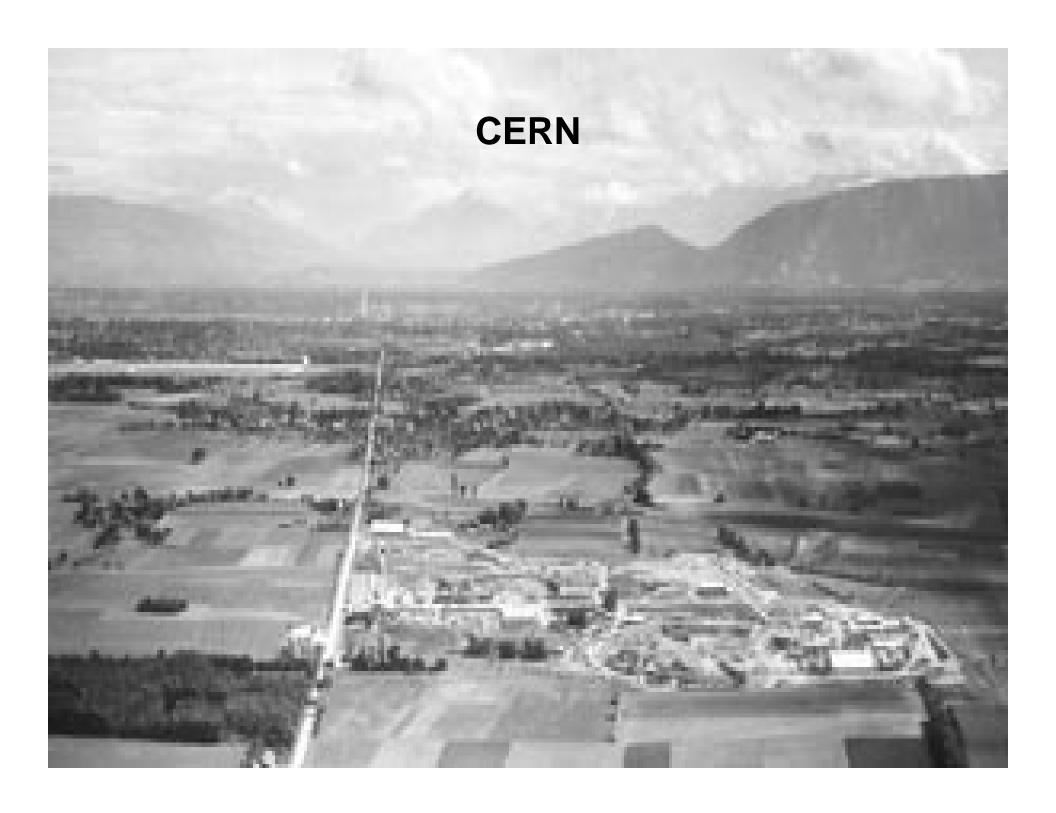
Livingston (left) and Lawrence with the magnet of the 27-inch cyclotron, operating in 1932 at 3.6 MeV.



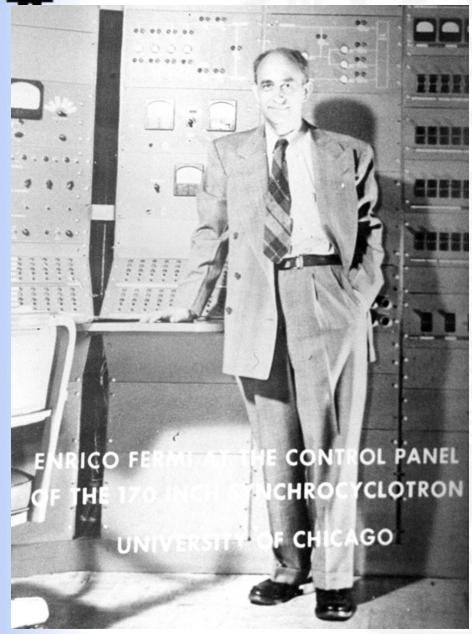


Brookhaven

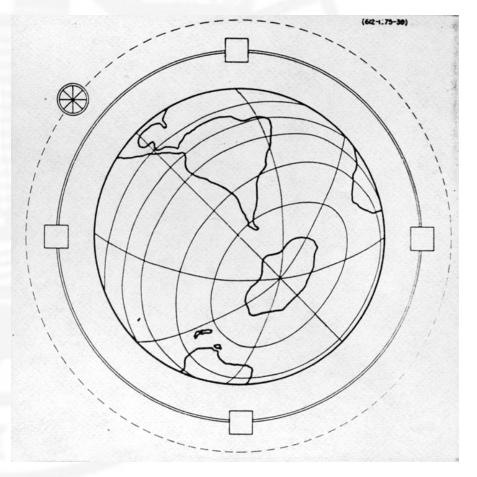








Enrico Fermi's vision – an Accelerator in Space, 1954

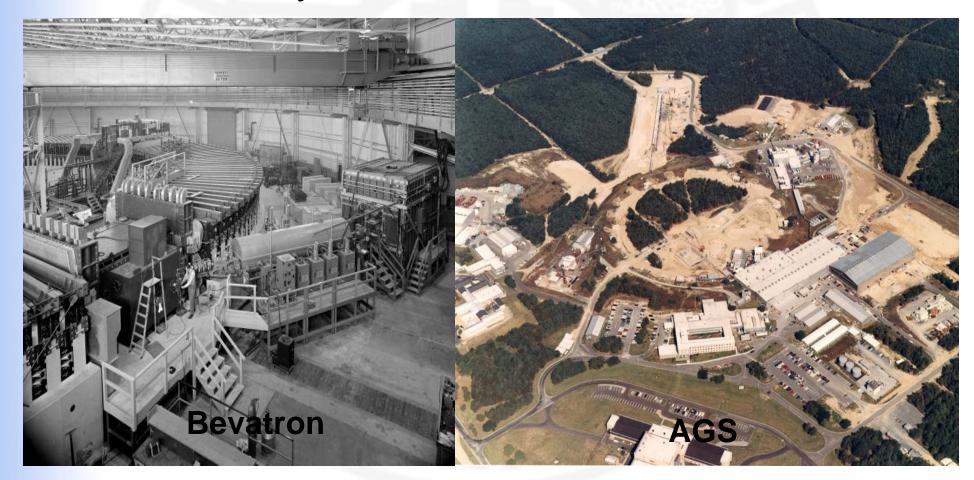




The 1963 Frontier

Berkeley

Brookhaven





TID-18636

Report of the
Panel on High Energy Accelerator Physics
of the General Advisory Committee to the
Atomic Energy Commission and the
President's Science Advisory Committee

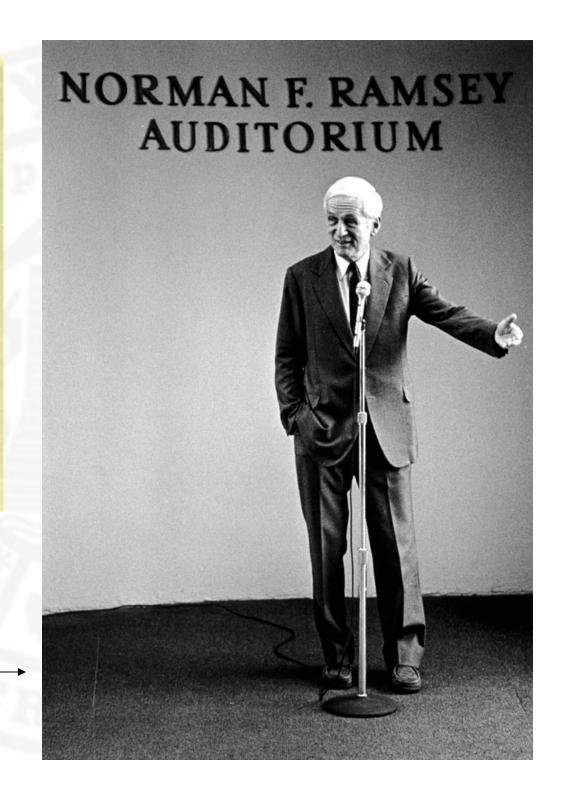
April 26, 1963



UNITED STATES ATOMIC ENERGY COMMISSION
Division of Technical Information

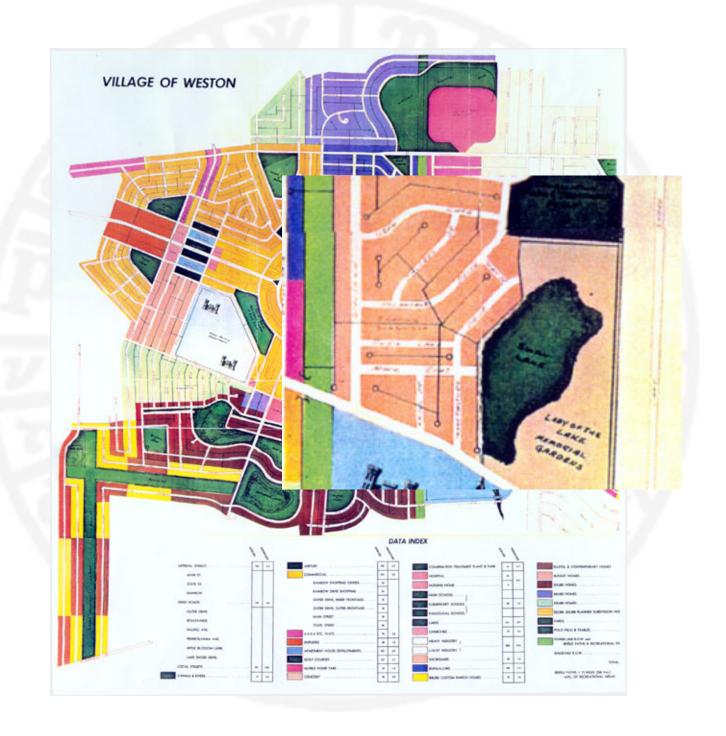
1963 Ramsey Report

Dedication of the Norman F. Ramsey Auditorium, October 1, 1981







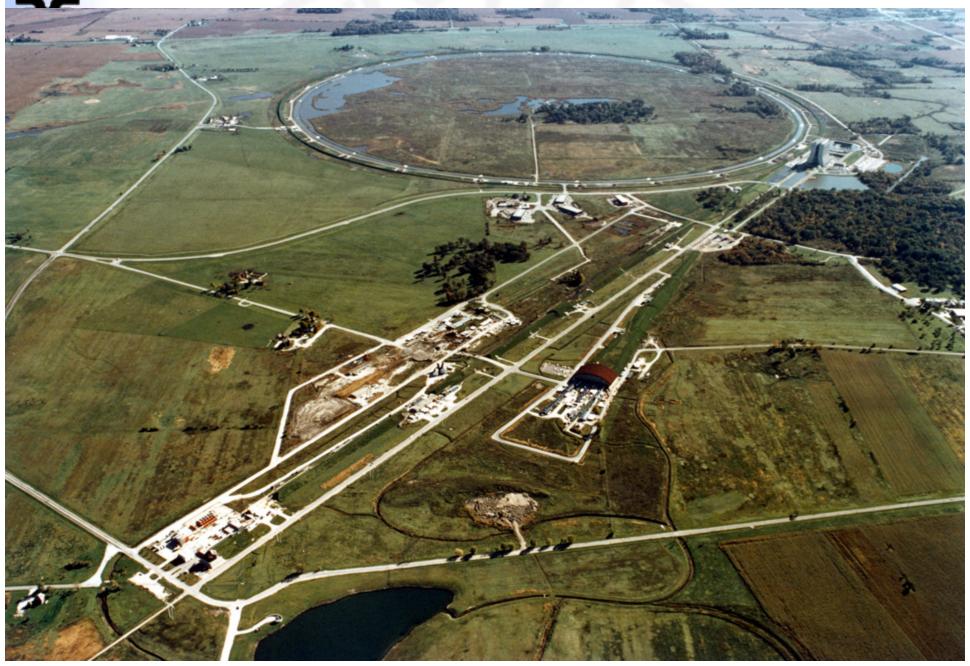






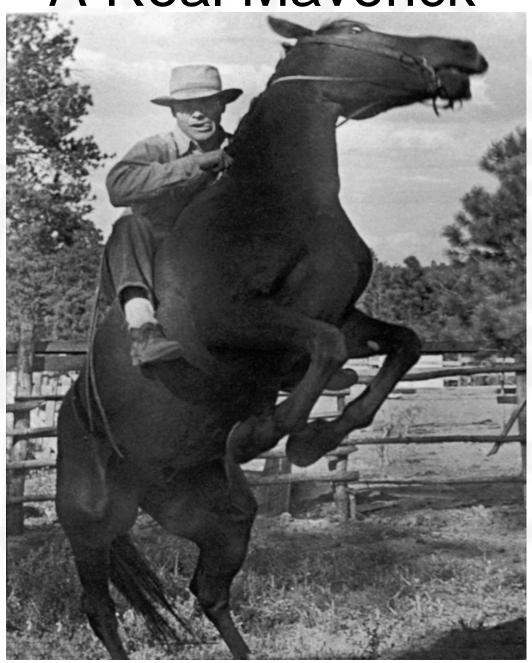


Fermilab, 1977



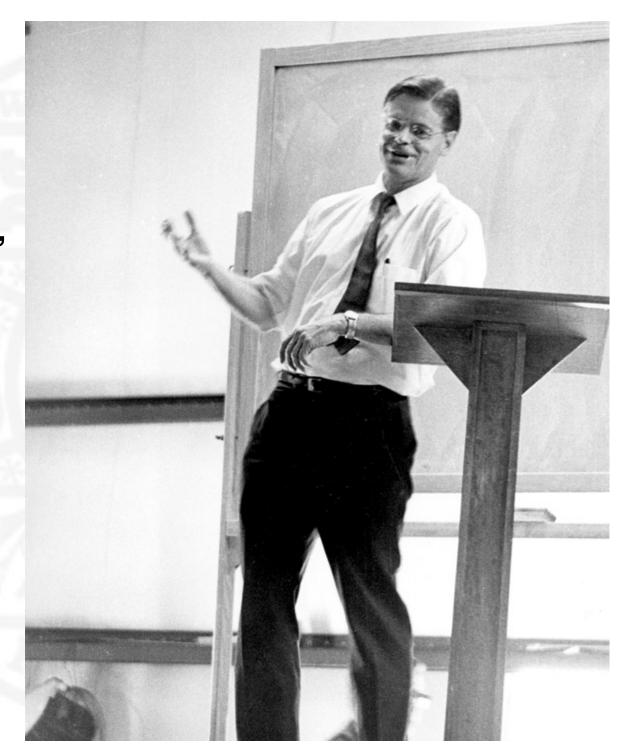


A Real Maverick





Robert R. Wilson, FNAL Director 1967-1978





Recruiting Wilson's Corps of Discovery







Telegram to:

Dr. Martin Luther King Southern Christian Leadership Conference 334 Auburn Avenue N. E. Atlanta, Georgia

with copy to: Southern Christian Leadership Conference 366 East 47th Street Chicago, Illinois

We scientists now designing the 200 BeV accelerator to be located at Weston strongly support the struggle for open housing in Illinois. Science has always progressed only through the free contribution of people of all races and creeds. This is no less true today in America, and the full success of this laboratory will depend on achieving conditions in Illinois which will allow any scientist, regardless of race or creed, to participate in this important project - a project which will contribute to a truly great intellectual and cultural heritage in Illinois. We join you in wanting to attain these great ends.

Signed: Robert Rathbun Wilson
Director, National Accelerator
Laboratory



DuPage Shows Little Interest in Protest



AL RABY

DuPage county generally showed little interest last weekend in the first civil rights protest of any proportion to be held here.

The "tent-in" at Warrenville was held to object to location of the atomic energy commission's new research laboratory at Weston without prior adoption of open housing legislation in Illinois. An estimated 250 marchers walked in the rain Saturday from Warrenville to Weston. There were about the same number of spectators.

Sheriff's and state police made two arrests. Fred Catalno, 29, and Christopher Vidmjevich, 23, who gave their addresses as 1314 W. Ohio st., Chicago, will appear July 6 in DuPage county Magistrate's court on charges of littering the highway.

Police said they caught the men, reported to be members of the American Bund party, climbing over a fence after posting and scattering anti-Negro literature at the camp site on the grounds of the Sisters of the Cenacle retreat house.

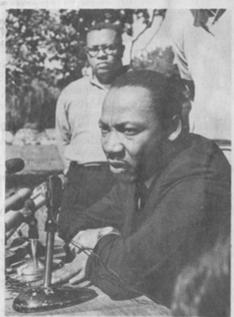
A car bearing a sign "Wallace for President" was diverted from the line of march.

Sheriff Lawrence Springborn assigned 75 uniformed men to the "tent-in" detail. There were 140 uniformed state policemen also on hand.

The Friday night "tent-in" was restricted to 10 campers by agreement between the sisters and the demonstration leaders.

Civil rights leaders the Rev. Martin Luther King and Al Raby both told audiences the federal government had failed to heed its own laws in moving ahead with Weston without fair housing guarantees.

A delegation of protestors was to have flown to Washington Tuesday to continue the Weston protest.



THE REV. MARTIN LUTHER KING



1967 Politics







1968 NAL Human Rights Statement



DR. ROBERT R. WILSON, DIRECTOR, NATIONAL ACCELERATOR LABORATORY, TALKS WITH DR. EDWIN L. GOLDWASSER, DEPUTY DIRECTOR, INSIDE MODEL OF A CROSS SECTION OF NAL MAIN ACCELERATOR. DR. WILSON IS LEANING AGAINST BENDING MAGNET.

"It will be the policy of the National Accelerator Laboratory to seek the achievement of its scientific goals within a framework of equal employment opportunity and of a deep dedication to the fundamental tenets of human rights and dignity."

Robert Rathbun Wilson, Director, and Edwin L. Goldwasser, Deputy Director



Aerial view of NAL Village, 1968

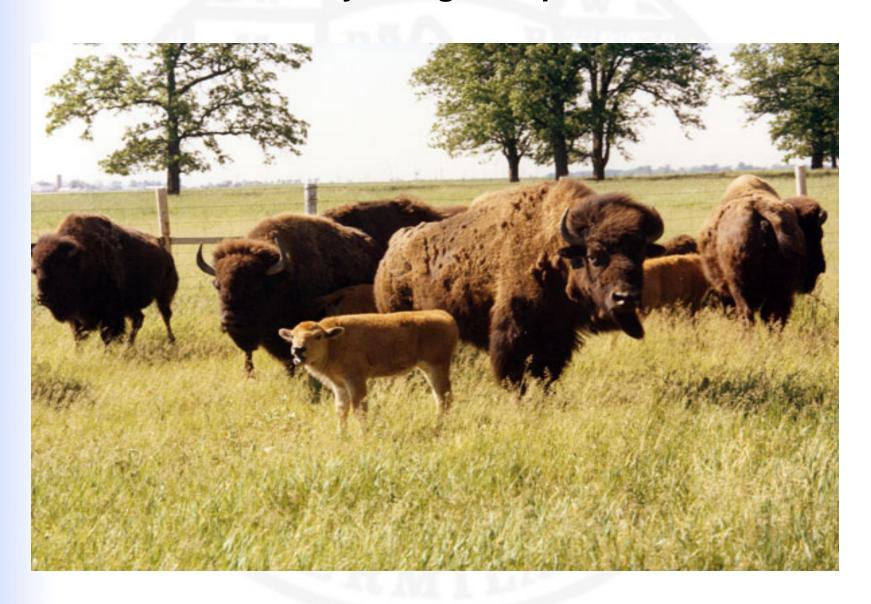




Robert R. Wilson and Glenn Seaborg, AEC Chairman, at the NAL Groundbreaking, December 1, 1968



The buffalo herd came to Fermilab from Colorado and Wyoming in September, 1969.





Transferring the Site to Atomic Energy Commission



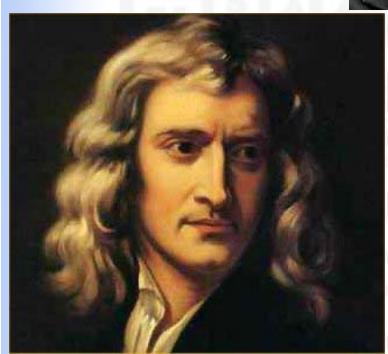
Goldwasser and Ramsey with Governors Shapiro, Ogilvie, and Kerner





Illinois Governors (went to/going to) jail









Testimony before the Congressional Joint Committee on Atomic Energy April 16, 1969

Dr. Wilson: It only has to do with the respect with which we regard one another, the dignity of men, our love of culture. It has to do with those things. It has to do with, are we good painters, good sculptors, great poets? I mean all the things that we really venerate and honor in our country and are patriotic about. It has nothing to do directly with defending our country except to help make it worth defending.



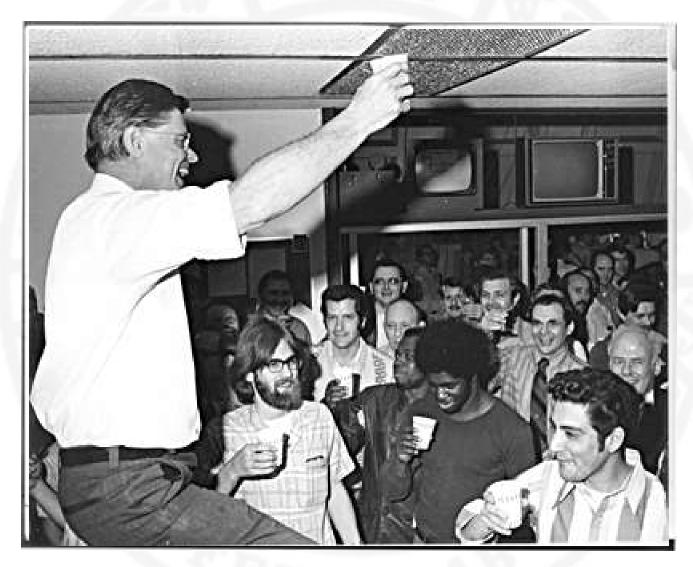








200 GeV March 1, 1972



Wilson toasts the NAL staff









A "User's Paradise"

NAL experimenters 1972





National Accelerator Laboratory, 1972





Construction of Wilson Hall



— January, 1972

February, 1973







Meson Area, 1974





Neutrino Area, 1974







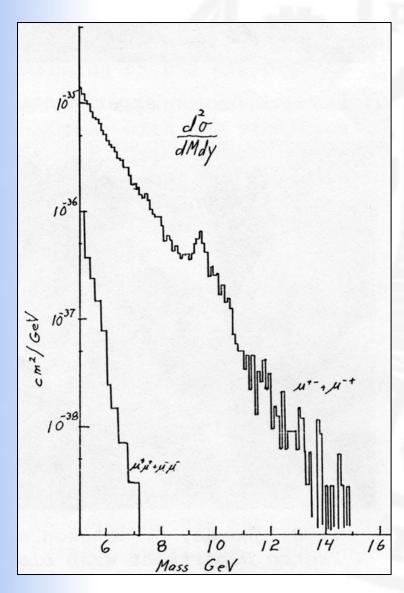
Proton Area 1975

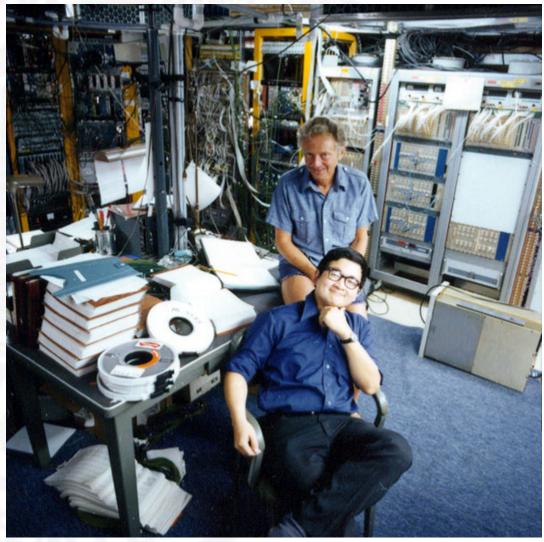






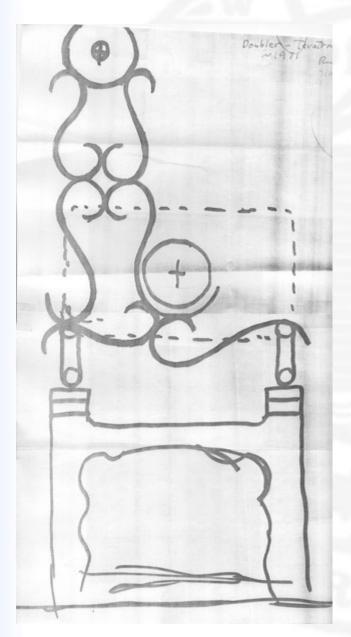
Discovery of Bottom Quark, June 1977

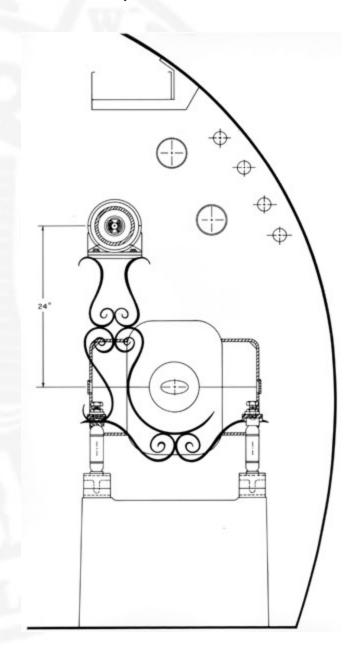




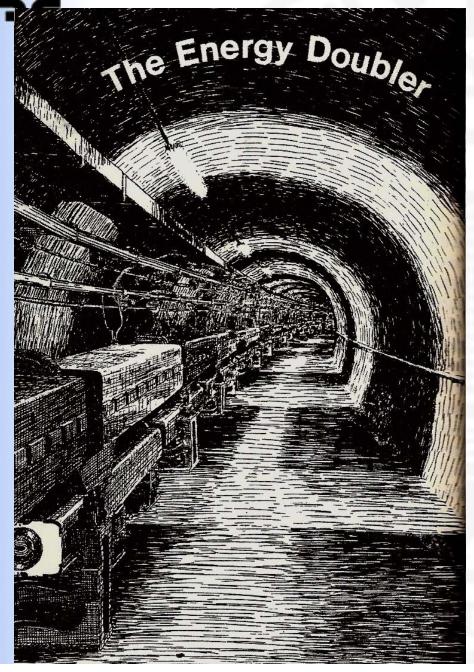


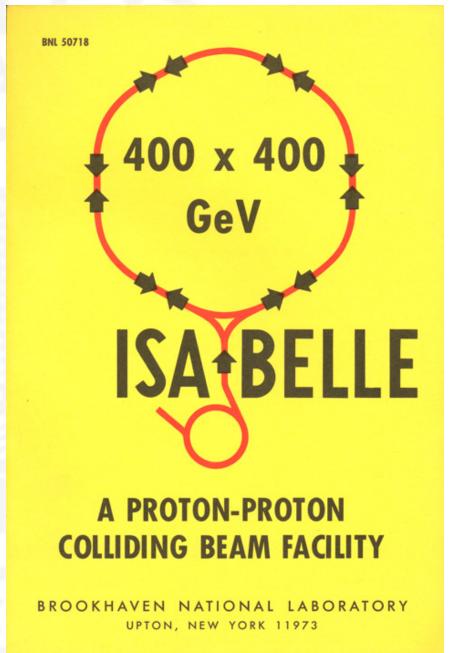
Wilson's vision of the Doubler, 1971





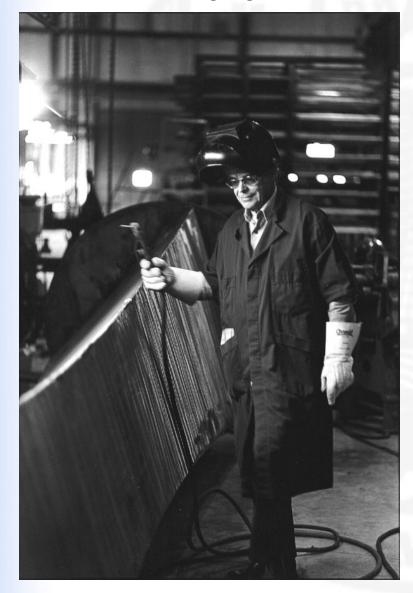
Inter-Laboratory Competition 1975-1983







"Acqua Alle Funi" 1978







Leon M. Lederman, Fermilab Director 1978-1989





ICFA JAN 78

2) workshop on VBA throbodoct.

When the US group call on State Dept types to tank about ...

Chairman Summary

- 1. Don't need to set up combing graps
- 2. But need workshows
 - o) VBA
 - 6) Regimal File Cincontext

20-40 people - acce dele

· Computers, El.

-meeting in october-

The parameters of the region

S

Delection

Defection Session Oct 78

Walter-Organizer
WHO

magnets

Sociological problems of

Oct 15 - Mby 27 1CFA 2 FRI

a 200×200 etc lorev pe

accelerate neeting = why + how different?

1. Limitahous + Possibilities

Detectors (n) Requirements imposed by the new contemplated accelerations



2. ICFA is the VBA Committee

Physics acceleration

management/Pot Managerial/Legal/Economic

Europe: Common Market & D When you know what you want cont so he wo * Financial * not for * adams: Not

* Financial *

Committee 2C

- 1. hegal problems involved in drawing up International agreements fa VBA
- 2. Economic Problems "
- 3. Question of admissibility of un-active Countries
- Site selection mechanisms
- DG-
- 1 State dept type Political Science 1 Budgetary type Economist 1 Gov Science admin
- ICFA Physicist

13 members



Chez Leon













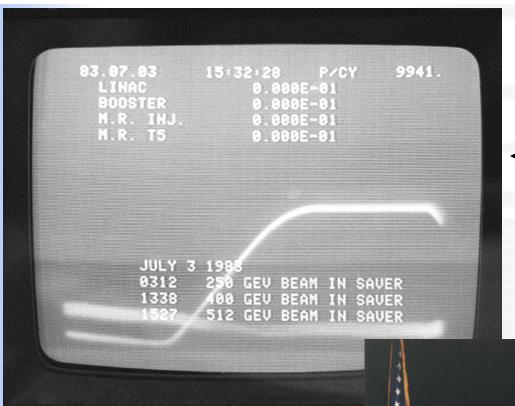
Fermilab Children's Center







The Energy Saver reached its design goal: accelerating protons to 500 GeV in a ring of superconducting magnets. In fact, the energy was 512 GeV -- a new world record for accelerators. The record was set at 3:37 p.m., Sunday, July 3, 1983, only 13 hours after the first serious attempt to accelerate beam above the injection energy of 150 GeV.



@HITACHI

Energy Doubler/Saver 512 GeV
July 3, 1983

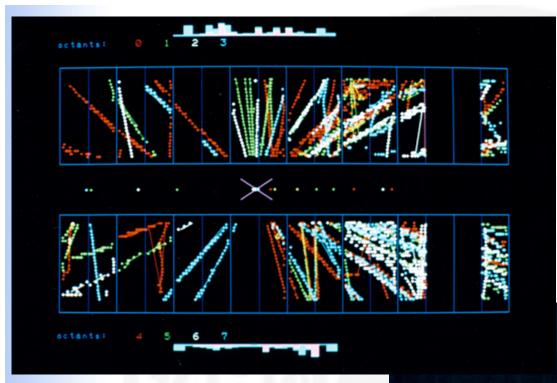
Dedication of the Energy Doubler/Saver April 28, 1984 →





An Antiproton Source for Colliding Beams, 1983





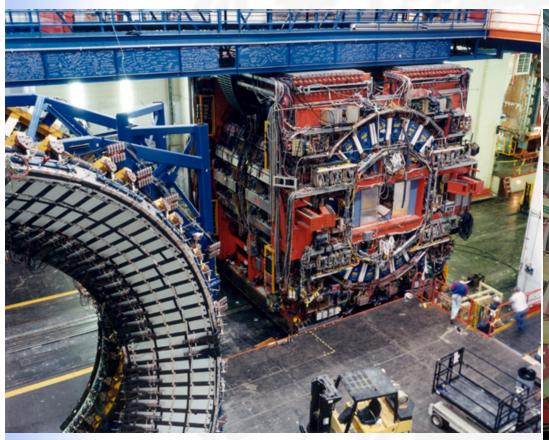
First Collisions
October 13, 1985

Dedication of the Tevatron Collider October 11, 1985





Detectors for Colliding Beams CDF and DZero

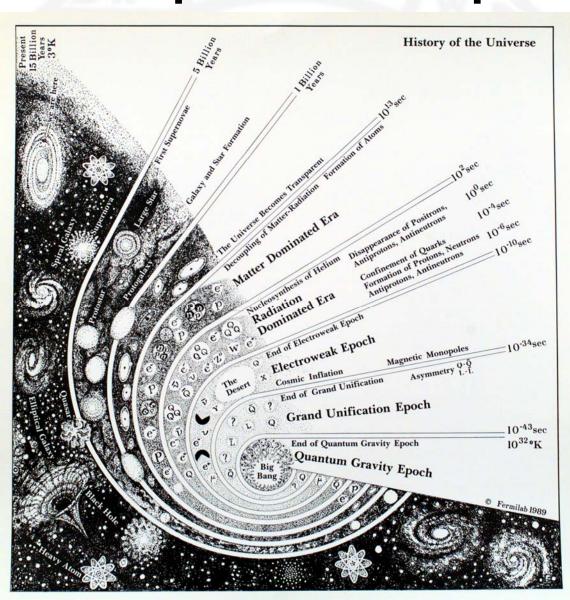


The "Truly International Laboratory"



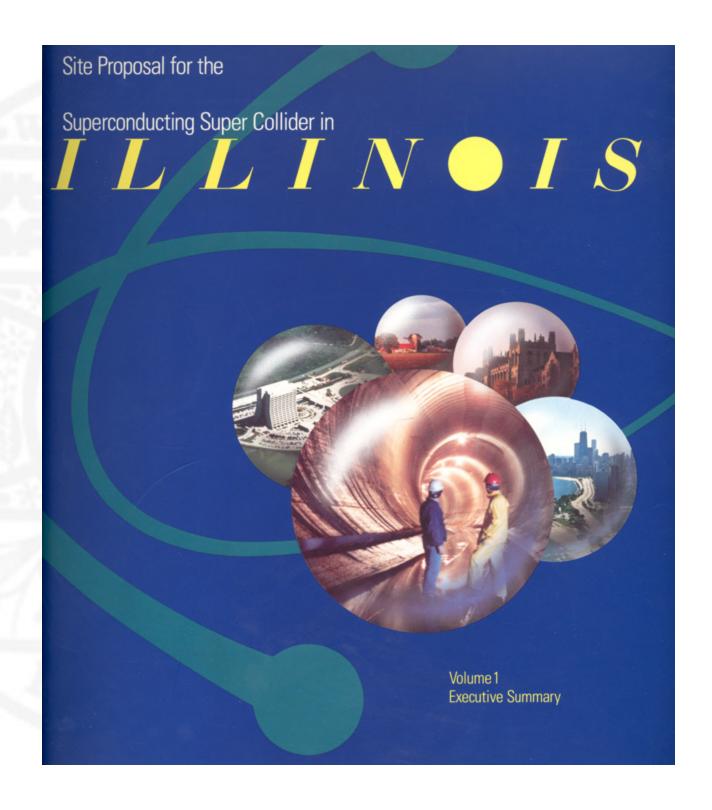


Inner Space-Outer Space

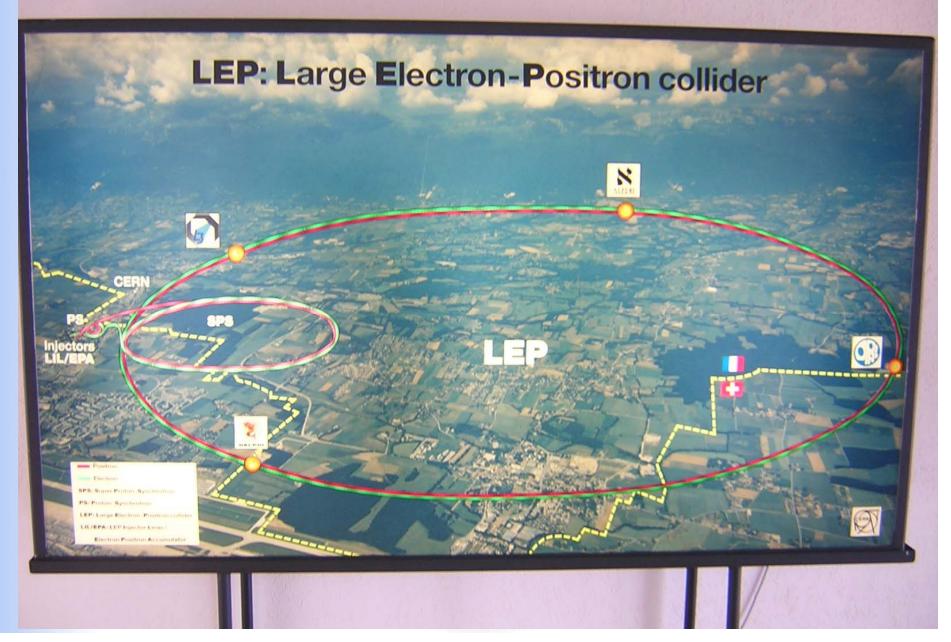




...On to the Future... the Super Frontier, 1984-88









Computing at Fermilab, 1988

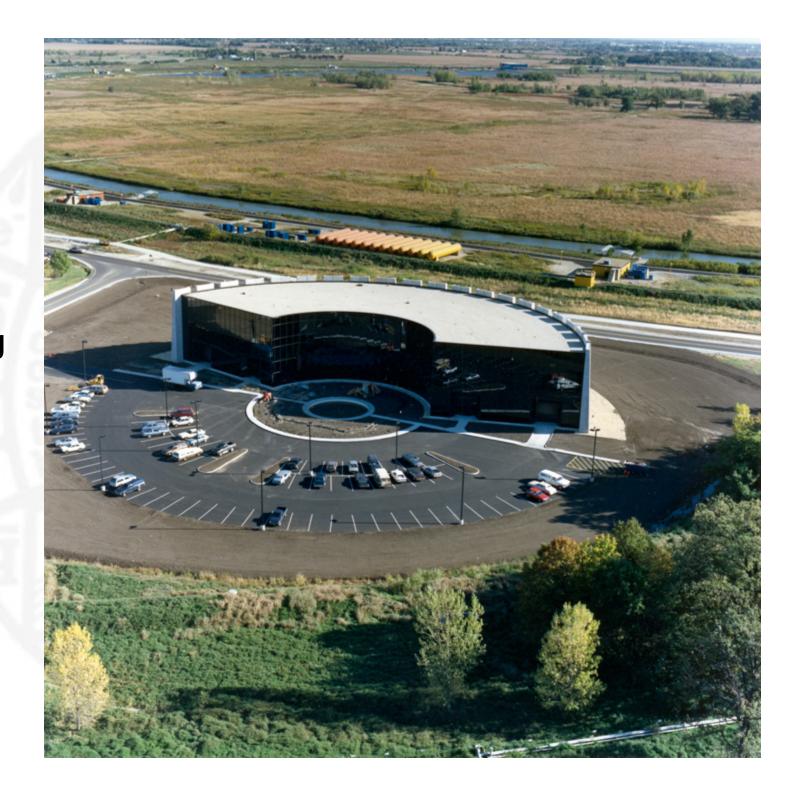








Feynman
Computing
Center,
1988





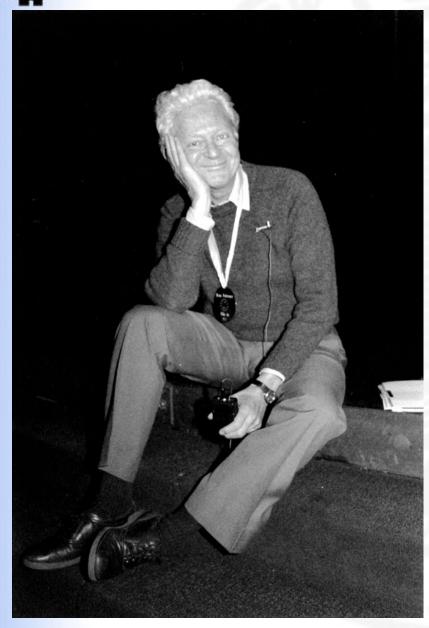
High-Energy Physics - Birthplace of the Web



1990-1992

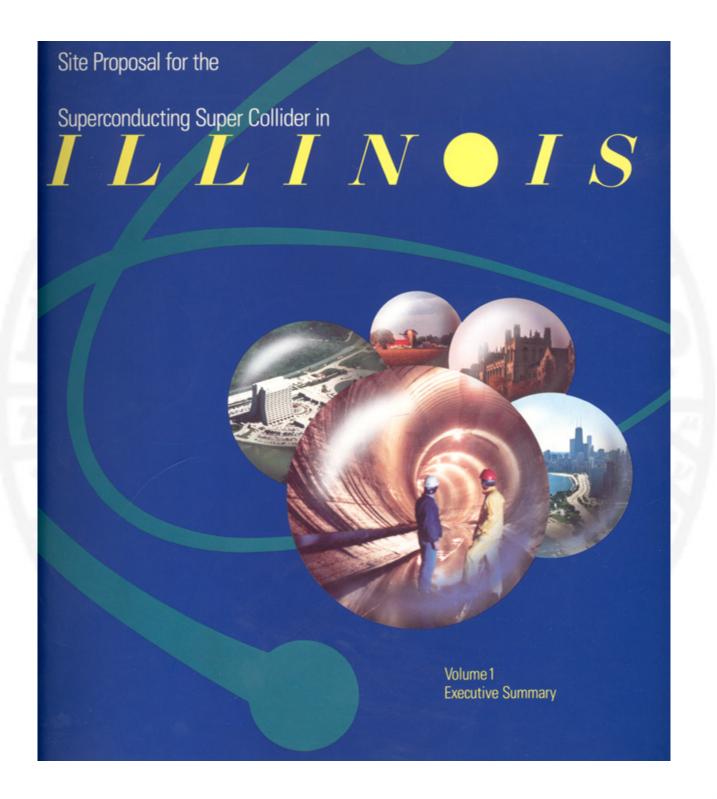


Director Leon Lederman wins 1988 Nobel Prize



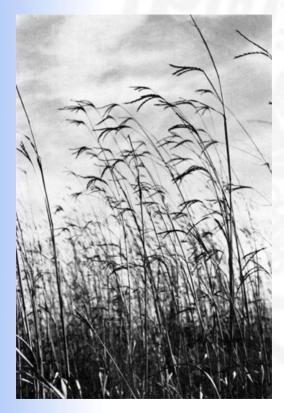








Prairie Restoration Project, 1974











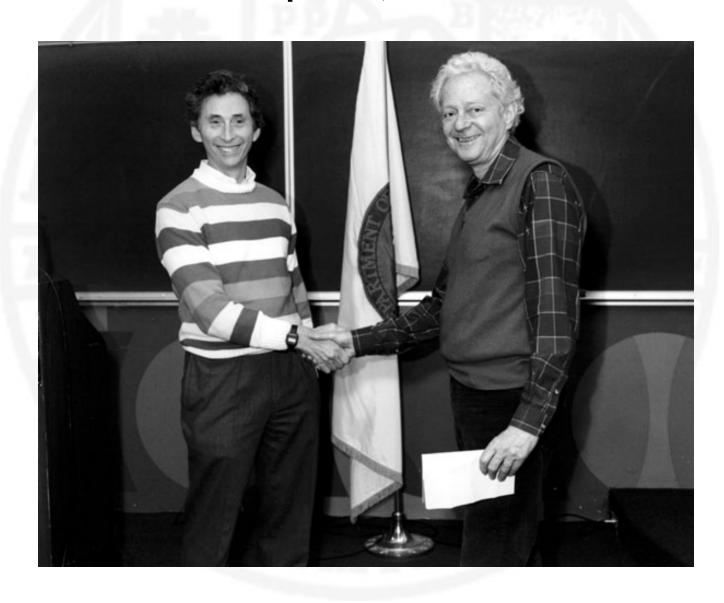
DOE National Environmental Research Park preserving open space in Illinois, 1989





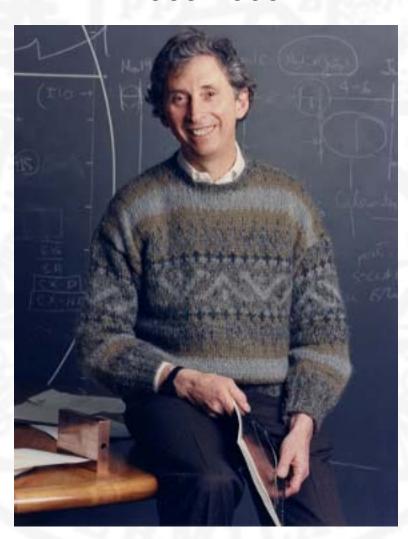


John Peoples and Leon Lederman April 21, 1989





John Peoples, Jr. Director 1989-1999





Inner Space

the Main Injector (1993-99)







From the Main Ring (1972)...



华

...to the Main Injector (1999)

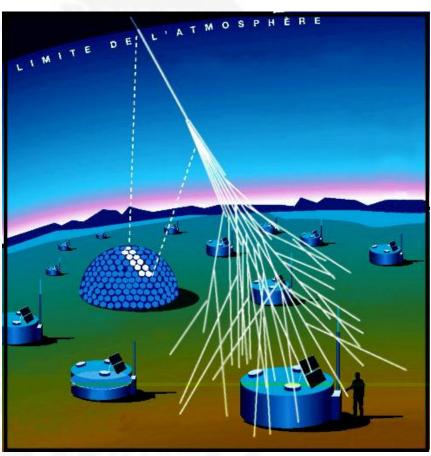




Outer Space Experimental Astrophysics



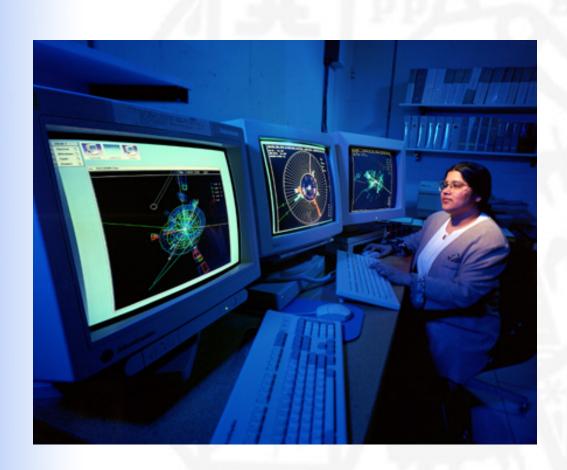
Sloan Digital Sky Survey

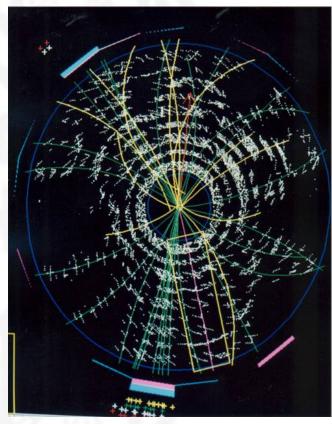


Pierre Auger Observatory



Electronic Data Analysis



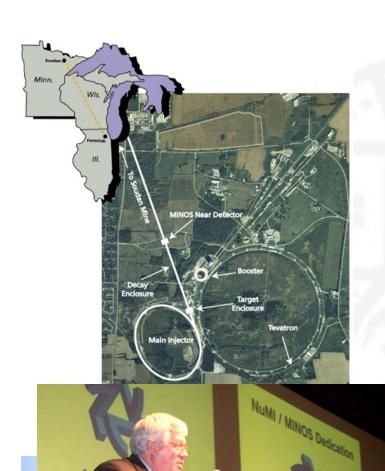




CDF and DZero discover Top Quark, 1995







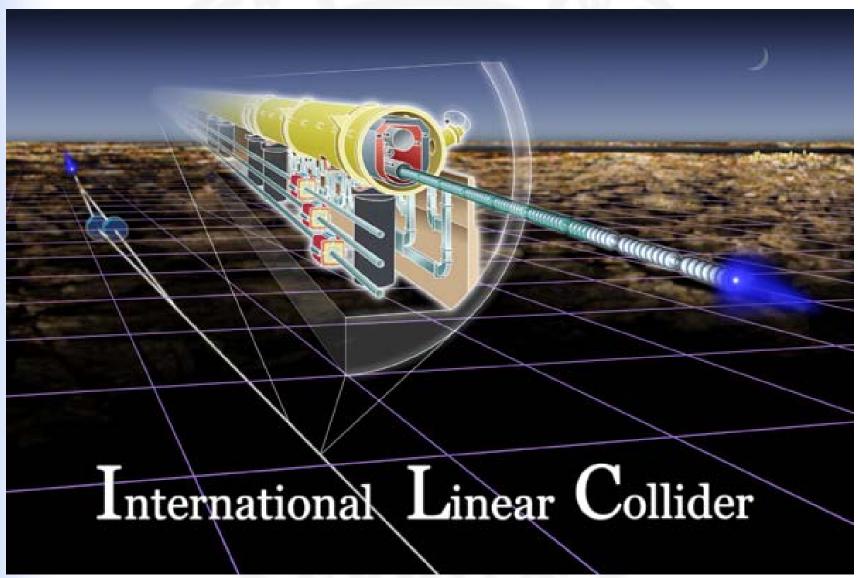




Michael S. Witherell
Director
1999-2005

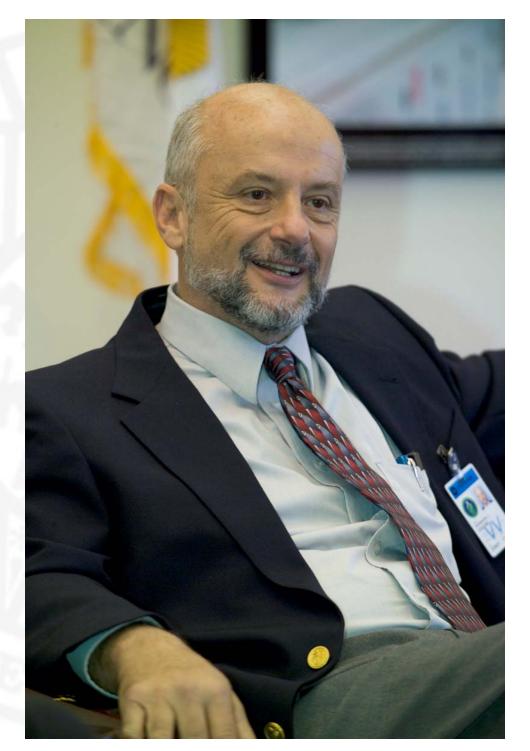






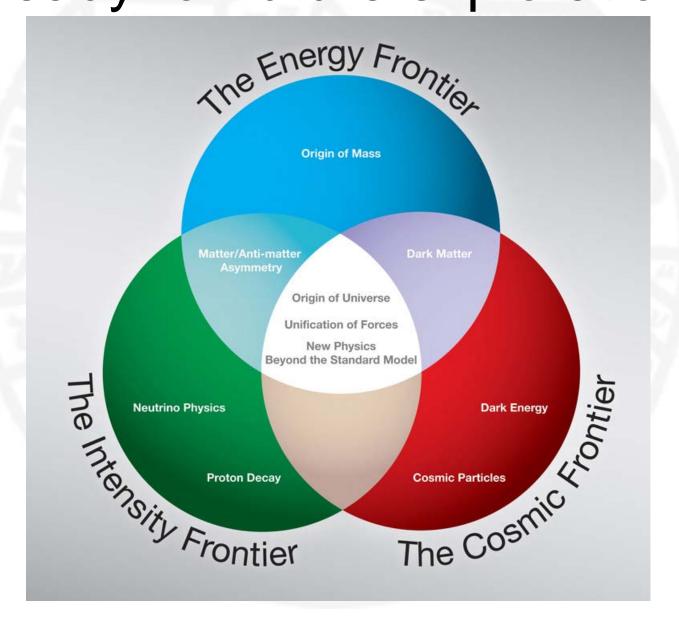


Piermaria J. Oddone
Director
2005-present





Ready for future exploration





Fermilab...still at the frontier





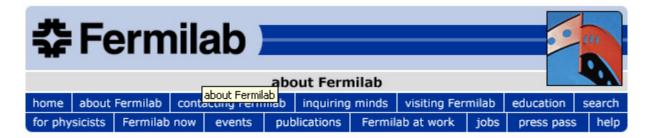
Fermilab

PHYSICS, THE FRONTIER & MEGASCIENCE

Lillian Hoddeson, Adrienne W. Kolb & Catherine Westfall







What is Fermilab?

what is Fermilab main page | mission | history | Enrico Fermi

History and Archives Project

The History and Archives Project offers guided access into the laboratory's historical

The History and Archives Project website can be found at

http://history.fnal.gov/

- Announcement of Renaming NAL
- Dedication of Laboratory
- Accelerator History
 - Linac
 - Booster
 - Main Ring
 - Beam Controls
 - Main Ring transition to Energy Doubler/Saver
- o Fixed Target Program
 - Internal Target
 - Meson
 - Neutrino
 - Proton
- Early Computing

